

United States Patent and Trademark Office



APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,671	07/11/2001		Donald Zaff Rogers	DEP05507-RE	5452
	7590	03/28/2002			
Carter Ledyard & Milburn				EXAMINER	
1401 Eye Street NW Suite 300				NAKARANI, DHIRAJLAL S	
Washington, DC 20005				ART UNIT	PAPER NUMBER
				1773	
				DATE MAILED: 03/28/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

		A9-1					
	Application No.	Applicant(s)					
Office Action Commence	09/901,671	ROGERS					
Office Action Summary	Examin r	Art Unit					
	D. S. Nakarani	1773					
Th MAILING DATE of this communication app Period for Reply	ars on the cover she t with the c	orrespond nce address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on 11 J	<u>uly 2001</u> .						
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims	·						
4) Claim(s) 1-39 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	vn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-39</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers	· . -						
9)☐ The specification is objected to by the Examiner	•						
10)☐ The drawing(s) filed on is/are: a)☐ accep	ted or b)⊡ objected to by the Exa i	miner.					
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. So	ee 37 CFR 1.85(a).					
11)☐ The proposed drawing correction filed on	is: a)□ approved b)□ disappro	ved by the Examiner.					
If approved, corrected drawings are required in rep	ly to this Office action.						
12)☐ The oath or declaration is objected to by the Exa	aminer.						
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:							
 Certified copies of the priority documents 	s have been received.						
Certified copies of the priority documents	s have been received in Applicati	on No					
 3. Copies of the certified copies of the prior application from the International Bur * See the attached detailed Office action for a list of the prior action f	eau (PCT Rule 17.2(a)).						
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(e	e) (to a provisional application).					
a) ☐ The translation of the foreign language pro-							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 	5) Notice of Informal F	/ (PTO-413) Paper No(s) Patent Application (PTO-152)					
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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hettich et al. (U.S. Patent 4,769,290) in view of Austin (U.S. Patent 5,332,618).

Hettich et al. disclose high efficiency reflectors and methods for making them.

The reflector comprises a transparent substrate such as glass or polymeric materials (claim 15), coatings of high refractive index and low refractive index. Hettich et al. disclose predetermined wave length of light reflect and predetermined wave length of light transmit (Example and col 1, line 39 to col. 2, line 45). The materials for forming high refractive index layer are tantalum oxide, titanium oxide and hafnium oxide, and for forming low refractive index layer is silicon dioxide (claims 3 and 4). Hettich et al's method for coating is low pressure method since it is done under vacuum. Hettich et al. fail to disclose curved substrate, non-planar substrate, complex shaped substrate, sputtering process and chemical vapor deposition method.

Austin discloses antireflection layer system which are similar to Hettich et al's system. Austin discloses sunglasses, corrective spectacles etc. (col. 1 lines 5-10, and 50-54) coated with alternating layers of high refractive index layer and low refractive index layer. Austin also discloses reflection of incident light higher at the blue end

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spectrum than at red end spectrum, which will impart a pronounced purple color to the reflected light (col. 7, lines 60 to col. 8 line 2). Austin also discloses method of coating which includes chemical vapor deposition method, sputtering method, physical vapor deposition method, ion beam deposition, plasma assisted chemical deposition etc. (col. 9, lines 23-33). The sunglasses and/or corrective spectacles are deem to be transparent non-planar substrate, curved substrate and complex shaped substrate.

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Therefore it would have been obvious to a person of ordinary skill in the art at the time this invention made to utilize disclosure of Austin in the invention of Hettich et al. to coat a transparent substrate to reflect pre determined wavelength of light and transmit other light.

No claims are allowed.

Sunglasses are considered as an ornament.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to D. S. Nakarani whose telephone number is (703) 308-2413. The examiner can normally be reached on Tuesday - Friday from 7:00 a.m. to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul J. Thibodeau, can be reached on (703) 308-2367. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-7718.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

D. S. NAKARANI PRIMARY EXAMINE

D.S. Nakarani/om

March 6, 2002